


Illumination system and display device including such a system.

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Abstract

The invention relates to a display device (1) having a transmission display panel (3) and an illumination system (11) which comprises a radiation source (13) and a diffuser (17). To achieve a high polarization conversion, a cholesteric filter (19) is arranged between the radiation source (13) and the display panel (3), which filter transmits radiation having the desired state of polarization in a wavelength range which is at least equal to the full visible wavelength range. A reflector (15) is further arranged opposite a diffuser side remote from the filter, which reflector reflects radiation reflected by the filter (19) back to the filter, which radiation is depolarized in the diffuser (17). 

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